

**§ 116.4****40 CFR Ch. I (7-1-07 Edition)**

*1974, or which may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Fishery Conservation and Management Act of 1976), means:* (1) A discharge into any waters beyond the contiguous zone from any vessel or onshore or offshore facility, which vessel or facility is subject to or is engaged in activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, and (2) any discharge into any waters beyond the contiguous zone which contain, cover, or support any natural resource belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Fishery Conservation and Management Act of 1976).

*Public vessel* means a vessel owned or bareboat-chartered and operated by the United States, or a State or political subdivision thereof, or by a foreign nation, except when such vessel is engaged in commerce.

*Territorial seas* means the belt of the seas measured from the line of ordinary low water along that portion of

the coast which is in direct contact with the open sea and the line marking the seaward limit of inland waters, and extending seaward a distance of 3 miles.

*Vessel* means every description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water other than a public vessel;

[43 FR 10474, Mar. 13, 1978; 43 FR 27533, June 26, 1978, as amended at 44 FR 10266, Feb. 16, 1979; 58 FR 45039, Aug. 25, 1993]

#### **§ 116.4 Designation of hazardous substances.**

The elements and compounds appearing in Tables 116.4 A and B are designated as hazardous substances in accordance with section 311(b)(2)(A) of the Act. This designation includes any isomers and hydrates, as well as any solutions and mixtures containing these substances. Synonyms and Chemical Abstract System (CAS) numbers have been added for convenience of the user only. In case of any disparity the common names shall be considered the designated substance.

TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES

Common name	CAS No.	Synonyms	Isomers	CAS No.
Acetaldehyde .....	75070	Ethanal, ethyl aldehyde, acetic aldehyde.		
Acetic acid .....	64197	Glacial acetic acid, vinegar acid.		
Acetic anhydride .....	108247	Acetic oxide, acetyl oxide.		
Acetone cyanohydrin .....	75865	2-methylacetonitrile, alpha-hydroxyisobutyronitrile.		
Acetyl bromide .....	506967			
Acetyl chloride .....	79367			
Acrolein .....	107028	2-propenal, acrylic aldehyde, acrylaldehyde, acraldehyde.		
Acrylonitrile .....	107131	Cyanoethylene, Fumigrain, Ventox, propenenitrile, vinyl cyanide.		
Adipic acid .....	124049	Hexanedioic acid.		
Aldrin .....	309002	Octalene, HHDN.		
Allyl alcohol .....	107186	2-propen-1-ol, 1-propenol-3, vinyl carbinal.		
Allyl chloride .....	107051	3-chloropropene, 3-chloropropylene, Chlorallylene.		
Aluminum sulfate .....	10043013	Alum.		
Ammonia .....	7664417			
Ammonium acetate .....	631618	Acetic acid ammonium, salt.		
Ammonium benzoate .....	1863634			
Ammonium bicarbonate .....	1066337	Acid ammonium carbonate, ammonium hydrogen carbonate.		
Ammonium bichromate .....	7789095			
Ammonium bifluoride .....	1341497	Acid ammonium fluoride, ammonium hydrogen fluoride.		
Ammonium bisulfite .....	10192300			
Ammonium carbamate .....	1111780	Ammonium aminoformate.		
Ammonium carbonate .....	506876			
Ammonium chloride .....	12125029	Ammonium muriate, sal ammoniac, salmiac, Amchlor.		
Ammonium chromate .....	7788989			
Ammonium citrate dibasic .....	3012655	Diammonium citrate, citric acid diammonium salt.		

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Ammonium fluoborate .....	13826830	Ammonium fluoroborate, ammonium borofluoride.		
Ammonium fluoride .....	12125018	Neutral ammonium fluoride.		
Ammonium hydroxide .....	1336216			
Ammonium oxalate .....	6009707			
	5972736			
	14258492			
Ammonium silicofluoride .....	16919190	Ammonium fluosilicate.		
Ammonium sulfamate .....	7773060	Ammate, AMS, ammonium amidosulfate.		
Ammonium sulfide .....	12135761			
Ammonium sulfite .....	10196040			
	10192300			
Ammonium tartrate .....	3164292	Tartaric acid ammonium salt.		
Ammonium thiocyanate .....	14307438			
Amyl acetate .....	1762954	Ammonium rhodanide, ammonium sulfocyanate, ammonium sulfocyanide.		
	628637	Amylacetate ester .....	iso- .....	123922
		Pear oil .....	sec- .....	626380
		Banana oil .....	tert- .....	625161
Aniline .....	62533	Aniline oil, phenylamine, aminobenzene, aminophen, kyanol.		
Antimony pentachloride .....	7647189			
Antimony potassium tartrate .....	28300745	Tartar emetic, tartrated antimony, tartarized antimony, potassium antimonyltartrate.		
Antimony tribromide .....	7789619			
Antimony trichloride .....	10025919	Butter of antimony.		
Antimony trifluoride .....	7783564	Antimony fluoride.		
Antimony trioxide .....	1309644	Diantimony trioxide, flowers of antimony.		
Arsenic disulfide .....	1303328	Red arsenic sulfide.		
Arsenic pentoxide .....	1303282	Arsenic acid anhydride, arsenic oxide.		
Arsenic trichloride .....	7784341	Arsenic chloride, arsenious chloride, arsenous chloride, butter of arsenic.		
Arsenic trioxide .....	1327533	Arsenious acid, arsenious oxide, white arsenic.		
Arsenic trisulfide .....	1303339	Arsenious sulfide, yellow arsenic sulfide.		
Barium cyanide .....	542621			
Benzene .....	71432	Cyclohexatriene, benzol.		
Benzoic acid .....	65850	Benzencarboxylic acid, phenylformic acid, dracylic acid.		
Benzonitrile .....	100470	Phenyl cyanide, cyanobenzene.		
Benzoyl chloride .....	98884	Benzencarbonyl chloride.		
Benzyl chloride .....	100447			
Beryllium chloride .....	7787475			
Beryllium fluoride .....	7787497			
Beryllium nitrate .....	7787555			
	13597994			
Butyl acetate .....	123864	Acetic acid butyl ester .....	iso- .....	110190
			sec- .....	105464
			tert- .....	540885
Butylamine .....	109739	1-aminobutane .....	iso- .....	78819
			sec- .....	513495
			sec- .....	13952846
			tert- .....	75649
n/butyl phthalate .....	84742	1,2-benzenedicarboxylic acid, dibutyl ester, dibutyl phthalate.		
Butyric acid .....	107926	Butanoic acid, ethylacetic acid .....	iso- .....	79312
Cadmium acetate .....	543908			
Cadmium bromide .....	7789426			
Cadmium chloride .....	10108642			
Calcium arsenate .....	7778441	Tricalcium orthoarsenate.		
Calcium arsenite .....	52740166			
Calcium carbide .....	75207	Carbide, acetylenogen.		
Calcium chromate .....	13765190	Calcium chrome yellow, geblin, yellow ultramarine.		
	592018			
	26264062			
	7778543			
Captan .....	133062	Orthocide-406, SR-406, Vancide-89.		
Carbaryl .....	63252	Sevin.		
Carbofuran .....	1563662	Furadan.		
Carbon disulfide .....	75150	Carbon bisulfide, dithiocarbonic anhydride.		
Carbon tetrachloride .....	56235	Tetrachloromethane Perchloromethane.		
Chlordane .....	57749	Toxiclhor, chlordan.		

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Chlorine .....	75003			
Chlorobenzene .....	108907	Monochlorobenzene, benzene chloride.		
Chloroform .....	67663	Trichloromethane.		
Chlorpyrifos .....	2921882	Dursban.		
Chlorosulfonic acid .....	7790945	Sulfuric chlorhydrin.		
Chromic acetate .....	1066304			
Chromic acid .....	11115745	Chromic anhydride, chromium trioxide.		
Chromic sulfate .....	10101538			
Chromous chloride .....	10049055			
Cobaltous bromide .....	7789437	Cobalt bromide.		
Coabaltous formate .....	544183	Cobalt formate.		
Cobaltous sulfamate .....	14017415	Cobalt sulfamate.		
Coumaphos .....	56724	Co-Ral.		
Cresol .....	1319773	Cresylic acid .....	m- .....	108394
		Hydroxytoluene .....	o- .....	95487
			p- .....	106445
Crotonaldehyde .....	4170303	2-butenal propylene aldehyde.		
Cupric acetate .....	142712	Copper acetate, crystallized verdigris.		
Cupric acetoarsenite .....	12002038	Copper acetoarsenite, copper acetate arsenite, Paris green.		
Cupric chloride .....	7447394	Copper chloride.		
Cupric nitrate .....	3251238	Copper nitrate.		
Cupric oxalate .....	5893663	Copper oxalate.		
Cupric sulfate .....	7758987	Copper sulfate.		
Cupric sulfate, ammoniated .....	10380297	Ammoniated copper sulfate.		
Cupric tartrate .....	815827	Copper tartrate.		
Cyanogen chloride .....	506774			
Cyclohexane .....	110827	Hexahydrobenzene, hexamethylene, hexanaphthene.		
2,4-D acid .....	94757	2,4-dichlorophenoxyacetic acid.		
2,4-D ester .....	94111	2,4-dichlorophenoxyacetic acid ester.		
	94791			
	94804			
	1320189			
	1928387			
	1928616			
	1929733			
	2971382			
	25168267			
	53467111			
DDT .....	50293	p,p'-DDT.		
Diazinon .....	333415	Dipofene, Diazitol, Basudin, Spectracide.		
Dicamba .....	1918009	2-methoxy-3,6-dichlorobenzoic acid.		
Dichlobenil .....	1194656	2,6-dichlorobenzonitrile, 2,6-DBN.		
Dichlone .....	117806	Phygon, dichloronaphthoquinone.		
Dichlorobenzene .....	25321226	Di-chloricide .....	Ortho .....	95501
		Paramoth (Para) .....	Para .....	106467
Dichloropropane .....	26638197	Propylene dichloride .....	1,1 .....	78999
			1,2 .....	78875
			1,3 .....	142289
Dichloropropene .....	26952238	.....	1,3 .....	542756
			2,3 .....	78886
Dichloropropene-dichloropropane (mixture).	8003198	D-D mixture Vidden D.		
2,2-Dichloropropionic acid .....	75990	Dalapon.		
Dichlorvos .....	62737	2,2-dichlorovinyl dimethyl phosphate, Vapona.		
Dicofol .....	115322	Di(p-chlorophenyl)-trichloromethylcarbinol, DTMC, dicofol.		
Dieleldrin .....	60571	Alvit.		
Diethylamine .....	109897			
Dimethylamine .....	124403			
Dinitrobenzene (mixed) .....	25154545	Dinitrobenzol .....	m- .....	99650
			o- .....	528290
			p- .....	100254
Dinitrophenol .....	51285	Aldifen .....	(2,5-) .....	329715
			(2,4-) .....	
			(2,6-) .....	573568
Dinitrotoluene .....	25321146	DNT .....	2,4 .....	121142
			2,6 .....	606202
			3,4 .....	610399
Diquat .....	85007	Aquacide.		
	2764729	Dextrone, Reglone, Diquat dibromide.		

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**TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued**

Common name	CAS No.	Synonyms	Isomers	CAS No.
Disulfoton .....	298044	Di-syston.		
Diuron .....	330541	DCMU, DMU.		
Dodecylbenzenesulfonic acid .....	27176870			
Endosulfan .....	115297	Thiodan.		
Endrin .....	72208	Mendrin, Compound 269.		
Epichlorohydrin .....	106898	-chloropropylene oxide.		
Ethion .....	563122	Nialate, ethyl methylene, phosphorodithioate.		
Ethylbenzene .....	100414	Phenylethane.		
Ethylenediamine .....	107153	1,2-diaminoethane.		
Ethylenediamine-tetraacetic acid (EDTA). ....	60004	Edetic acid, Havidote, (ethylenedinitriilo)-tetraacetic acid.		
Ethylene dibromide .....	106934	1,2-dibromoethane acetylene dibromide sym-dibromoethylene.		
Ethylene dichloride .....	107062	1,2-dichloroethane sym-bichloroethane.		
Ferric ammonium citrate .....	1185575	Ammonium ferric citrate.		
Ferric ammonium oxalate .....	2944674	Ammonium ferric oxalate.		
Ferric chloride .....	5548874			
Ferric fluoride .....	7705080	Flores martis, iron trichloride.		
Ferric nitrate .....	7783508	Iron nitrate.		
Ferric sulfate .....	10421484	Ferric persulfate, ferric sesquisulfate, ferric tersulfate.		
Ferrous ammonium sulfate .....	10045893	Mohr's salt, iron ammonium sulfate.		
Ferrous chloride .....	7758943	Iron chloride, iron dichloride, iron protchloride.		
Ferrous sulfate .....	7720787	Green vitriol.		
Formaldehyde .....	7782630	Iron vitriol, iron sulfate, iron protosulfate.		
Formic acid .....	50000	Methyl aldehyde, methanal, formalin.		
Fumaric acid .....	64186	Methanoic acid.		
	110178	Trans-butenedioic acid, trans-1,2-ethylenedicarboxylic acid, boletic acid, allomaleic acid.		
Furfural .....	98011	2-furaldehyde, pyromucic aldehyde.		
Guthion .....	86500	Gusathion, azinphos-methyl.		
Heptachlor .....	76448	Velsicol-104, Drinox, Heptagran.		
Hexachlorocyclopentadiene .....	77474	Perchlorocyclopentadiene.		
Hydrochloric acid .....	7647010	Hydrogen chloride, muriatic acid.		
Hydrofluoric acid .....	7664393	Fluohydric acid.		
Hydrogen cyanide .....	74908	Hydrocyanic acid.		
Hydrogen sulfide .....	7783064	Hydrosulfuric acid sulfur hydride.		
Isoprene .....	78795	2-methyl-1,3-butadiene.		
Isopropanolamine dodecylbenzenesulfonate. ....	42504461			
Kepone .....	143500	Chlordecone 1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-1,3,4-metheno-2H-cycloluta(cd)pentalen-2-one.		
Lead acetate .....	301042	Sugar of lead.		
Lead arsenate .....	7784409			
	7645252			
	10102484			
Lead chloride .....	7758954			
Lead fluoroborate .....	13814965	Lead fluoroborate.		
Lead fluoride .....	7783462	Lead difluoride, plumbous fluoride.		
Lead iodide .....	10101630			
Lead nitrate .....	10099748			
Lead stearate .....	7428480	Stearic acid lead salt.		
	1072351			
	52652592			
Lead sulfate .....	7446142			
Lead sulfide .....	1314870	Galena.		
Lead thiocyanate .....	592870	Lead sulfocyanate.		
Lindane .....	58899	Gamma-BHC, gamma-benzene hexachloride.		
Lithium chromate .....	14307358			
Malathion .....	121755	Phosphothion.		
Maleic acid .....	110167	Cis-butenedioic acid, cis-1,2-ethylenedicarboxylic acid, toxicil acid.		
Maleic anhydride .....	108316	2,5-furandione, cis-butenedioic anhydride, toxicil anhydride.		
Mercaptodimethur .....	203657	Mesurol.		
Mercuric cyanide .....	592041	Mercury cyanide.		
Mercuric nitrate .....	10045940	Mercury nitrate, mercury pernitrate.		
Mercuric sulfate .....	7783359	Mercury sulfate, mercury persulfate.		
Mercuric thiocyanate .....	592858	Mercury thiocyanate, mercuric sulfocyanate, mercuric sulfocyanide.		

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Mercurous nitrate .....	7782867			
Methoxychlor .....	10415755	Mercury protonitrate.		
Methoxychlor .....	72435	DMDT, methoxy-DDT.		
Methyl mercaptan .....	74931	Methanethiol, mercaptomethane, methyl sulfhydrate, thiomethyl alcohol.		
Methyl methacrylate .....	80626	Methacrylic acid methyl ester, methyl-2-methyl-2-propenoate.		
Methyl parathion .....	298000	Nitrox-80.		
Mevinphos .....	7786347	Phosdrin.		
Mexacarbate .....	315184	Zectran.		
Monoethylamine .....	75047	Ethylamine, aminoethane.		
Monomethylamine .....	74895	Methylamine, aminomethane.		
Naled .....	300765	Dibrom.		
Naphthalene .....	91203	White tar, tar camphor, naphthalin.		
Naphthenic acid .....	1338245	Cyclohexanecarboxylic acid, hexahydrobenzoic acid.		
Nickel ammonium sulfate .....	15699180	Ammonium nickel sulfate.		
Nickel chloride .....	37211055	Nickelous chloride.		
Nickel hydroxide .....	7718549	Nickelous hydroxide.		
Nickel nitrate .....	14216752			
Nickel sulfate .....	7786814	Nickelous sulfate.		
Nitric acid .....	7697372	Aqua fortis.		
Nitrobenzene .....	98953	Nitrobenzol, oil of mirbane.		
Nitrogen dioxide .....	10102440	Nitrogen tetroxide.		
Nitrophenol (mixed) .....	25154556	Mononitrophenol .....	m- .....	554847
			o- .....	88755
			p- .....	100027
Nitrotoluene .....	1321126		Ortho .....	88722
			Meta .....	99081
			Para .....	99990
Parafomaldehyde .....	30525894	Paraform, Formagene, Triformol, polymerized formaldehyde, polyoxymethylene.		
Parathion .....	56382	DNTP, Niram.		
Pentachlorophenol .....	87865	PCP, Penta.		
Phenol .....	108952	Carbolic acid, phenyl hydroxide, hydroxybenzene, oxybenzene.		
Phosgene .....	75445	Diphosgene, carbonyl chloride, chloroformyl chloride.		
Phosphoric acid .....	7664382	Orthophosphoric acid.		
Phosphorus .....	7723140	Black phosphorus, red phosphorus, white phosphorus, yellow phosphorus.		
Phosphorus oxychloride .....	10025873	Phosphoryl chloride, phosphorus chloride.		
Phosphorus pentasulfide .....	1314803	Phosphorous sulfide, triphosphoric anhydride, phosphorus persulfide.		
Phosphorus trichloride .....	7719122	Phosphorous chloride.		
Polychlorinated biphenyls .....	1336363	PCB, Aroclor, polychlorinated diphenyls.		
Potassium arsenate .....	7784410			
Potassium arsenite .....	10124502	Potassium metaarsenite.		
Potassium bichromate .....	7778509	Potassium dichromate.		
Potassium chromate .....	7789006			
Potassium cyanide .....	151508	Potassium hydrate, caustic potash, potassa.		
Potassium hydroxide .....	1310583	Chameleon mineral.		
Potassium permanganate .....	7722647			
Propargite .....	2312358	Omite.		
Propionic acid .....	79094	Propanoic acid, methylacetic acid, ethylformic acid.		
Propionic anhydride .....	123626	Propanoic anhydride, methylacetic anhydride.		
Propylene oxide .....	75569	Propene oxide.		
Pyrethrins .....	121299	Pyrethrin I.		
Quinoline .....	121211	Pyrethrin II.		
Resorcinol .....	91225	1-benzazine, benzo(b)pyridine, leucoline, chinoleine, leucol.		
Selenium oxide .....	108463	Resorcin, 1,3-benzenediol, meta-dihydroxybenzene.		
Silver nitrate .....	7446084	Selenium dioxide.		
Sodium .....	7761888	Nitric acid silver (1+) salt lunar caustic.		
Sodium arsenate .....	7440235	Natrium.		
Sodium arsenite .....	7631892	Disodium arsenate.		
Sodium arsenite .....	7784465	Sodium metaarsenite.		
Sodium bichromate .....	10588019	Sodium dichromate.		
Sodium bifluoride .....	1338381			

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Sodium bisulfite .....	7631905	Sodium acid sulfite, sodium hydrogen sulfite.		
Sodium chromate .....	7775113			
Sodium cyanide .....	143339			
Sodium dodecybenzene-sulfonate	25155300			
Sodium fluoride .....	7681494	Villiaumite.		
Sodium hydrosulfide .....	16721805	Sodium hydrogen sulfide.		
Sodium hydroxide .....	1310732	Caustic soda, soda lye, sodium hydrate.		
Sodium hypochlorite .....	7681529	Bleach.		
	10022705			
Sodium methylate .....	124414	Sodium methoxide.		
Sodium nitrite .....	7632000			
Sodium phosphate, dibasic .....	7558794			
	10039324			
	10140655			
Sodium phosphate, tribasic .....	7785844			
	7601549			
	10101890			
	10361894			
	7758294			
	10124568			
Sodium selenite .....	10102188			
	7782823			
Strontium chromate .....	7789062			
Strychnine .....	57249			
Styrene .....	100425	Vinylbenzene, phenylethylene, styrol, styrolene, cinnamene, cinnamol.		
Sulfuric acid .....	7664939	Oil of vitriol, oleum.		
Sulfur monochloride .....	12771083	Sulfur chloride.		
2,4,5-T acid .....	93765	2,4,5-trichlorophenoxyacetic acid.		
2,4,5-T amines .....	6369966	Acetic acid (2,4,5-trichlorophenoxy)-compound with N,N-dimethylmethanamine (1:1).		
	6369977	Acetic acid (2,4,5-trichlorophenoxy)-compound with N-methylmethanamine (1:1).		
	1319728	Acetic acid (2,4,5-trichlorophenoxy)-compound with 1-amino-2-propanol (1:1).		
	3813147	Acetic acid (2,4,5-trichlorophenoxy)-compound with 2,2'2"-nitrilotris [ethanol] (1:1).		
2,4,5-T esters .....	2545597	2,4,5-trichlorophenoxyacetic esters.		
	93798			
	61792072			
	1928478			
	25168154			
2,4,5-T salts .....	13560991	Acetic acid (2,4,5-trichlorophenoxy)-sodium salt.		
TDE .....	72548	DDD.		
2,4,5-TP acid .....	93721	Propanoic acid 2-(2,4,5-trichlorophenoxy).		
2,4,5-TP esters .....	32534955	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-, isoctyl ester.		
Tetraethyl lead .....	78002	Lead tetraethyl, TEL.		
Tetraethyl pyrophosphate .....	107493	TEPP.		
Thallium sulfate .....	10031591			
Toluene .....	7446186			
	108883	Toluol, methylbenzene, phenylmethane, Methacide.		
Toxaphene .....	8001352	Camphechlor.		
Trichlorfon .....	52686	Dipterex .....		
		Dylox.		
Trichlorethylene .....	79016	Ethylene trichloride.		
Trichlorophenol .....	25167822	Collunosol, Dowicide 2 or 2S, Omal, Phenachlor.	(2,3,4-) .....	15950660
			(2,3,5-) .....	933788
			(2,3,6-) .....	933755
			(2,4,5-) .....	95954
			(2,4,6-) .....	88062
			(3,4,5-) .....	609198
Triethanolamine dodecylbenzenesulfonate.	27323417			
Triethylamine .....	121448			
Trimethylamine .....	75503	TMA.		
Uranyl acetate .....	541093			
Uranyl nitrate .....	10102064			
	36478769			
Vanadium pentoxide .....	1314621	Vanadic anhydride, vanadic acid anhydride.		

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Common name	CAS No.	Synonyms	Isomers	CAS No.
Vanadyl sulfate .....	27774136	Vanadic sulfate, vanadium sulfate.		
Vinyl acetate .....	108054	Acetic acid ethylene ether.		
Vinylidene chloride .....	75354	1,1-dichlorethylene. 1,1-dichloroethene.		
Xylene (mixed) .....	1330207	Dimethylbenzene .....	m- .....	108383
		Xylool .....	o- .....	95476
			p- .....	106423
Xylenol .....	1300716	Dimethylphenol, hydroxydimethylbenzene.		
Zinc acetate .....	557346			
Zinc ammonium chloride .....	14639975			
	14639986			
	52628258			
Zinc borate .....	1332076			
Zinc bromide .....	7699458			
Zinc carbonate .....	3486359			
Zinc chloride .....	7646857	Butter of zinc.		
Zinc cyanide .....	557211			
Zinc fluoride .....	7783495			
Zinc formate .....	557415			
Zinc hydrosulfite .....	7779864			
Zinc nitrate .....	7779886			
Zinc phenolsulfonate .....	127822	Zinc sulfocarbonate.		
Zinc phosphide .....	1314847			
Zinc silicofluoride .....	16871719	Zinc fluosilicate.		
Zinc sulfate .....	7733020	White vitriol, zinc vitriol, white copperas.		
Zirconium nitrate .....	13746899			
Zirconium potassium fluoride .....	16923958			
Zirconium sulfate .....	14644612	Disulfatozirconic acid.		
Zirconium tetrachloride .....	10026116			

**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER**

CAS No.	Common name
50000 .....	Formaldehyde
50293 .....	DDT
51285 .....	2,4-Dinitrophenol
52686 .....	Trichlorfon
56382 .....	Parathion
56724 .....	Coumaphos
57249 .....	Strychnine
57749 .....	Chlordane
58899 .....	Lindane
60004 .....	Ethylenediaminetetraacetic acid (EDTA)
60571 .....	Dieldrin
62533 .....	Aniline
62737 .....	Dichlorvos
63252 .....	Carbaryl
64186 .....	Formic acid
64197 .....	Acetic acid
65850 .....	Benzoic acid
67663 .....	Chloroform
71432 .....	Benzene
72208 .....	Endrin
72435 .....	Methoxychlor
72548 .....	TDE
74895 .....	Monomethylamine
74908 .....	Hydrogen cyanide
74931 .....	Methyl mercaptan
75047 .....	Monoethylamine
75070 .....	Acetaldehyde
75150 .....	Carbon disulfide
75207 .....	Calcium carbide
75445 .....	Phosgene
75503 .....	Trimethylamine
75649 .....	tert-Butylamine
75865 .....	Acetone cyanohydrin
75990 .....	2,2-Dichloropropionic acid
76448 .....	I Heptachlor

**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued**

CAS No.	Common name
78002 .....	Tetraethyl lead
78795 .....	Isoprene
78819 .....	iso-Butylamine
79094 .....	Propionic acid
79312 .....	iso-Butyric acid
79367 .....	Acetyl chloride
80626 .....	Methyl methacrylate
85007 .....	Diquat
86500 .....	Guthion
87865 .....	Pentachlorophenol
88755 .....	o-Nitrophenol
91203 .....	Naphthalene
91225 .....	Quinoline
93765 .....	2,4,5-T acid
93798 .....	2,4,5-T ester
94111 .....	2,4-D ester
94757 .....	2,4-D acid
94791 .....	2,4-D ester
94804 .....	2,4-D Butyl ester
95476 .....	o-Xylene
95487 .....	o-Cresol
98011 .....	Furfural
98884 .....	Benzoyl chloride
98953 .....	Nitrobenzene
99650 .....	m-Dinitrobenzene
100027 .....	p-Nitrophenol
100254 .....	p-Dinitrobenzene
100414 .....	Ethylbenzene
100425 .....	Styrene
100447 .....	Benzyl chloride
100470 .....	Benzonitrile
105464 .....	sec-Butyl acetate
106423 .....	p-Xylene
106445 .....	p-Cresol
107028 .....	Acrolein
107051 .....	Allyl chloride

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**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued**

CAS No.	Common name
107131 .....	Acrylonitrile
107153 .....	Ethylenediamine
107186 .....	Allyl alcohol
107493 .....	Tetraethyl pyrophosphate
107926 .....	n-Butyric acid
108054 .....	Vinyl acetate
108247 .....	Acetic anhydride
108316 .....	Maleic anhydride
108383 .....	m-Xylene
108394 .....	m-Cresol
108463 .....	Resorcinol
108883 .....	Toluene
108907 .....	Chlorobenzene
108952 .....	Phenol
109739 .....	n-Butylamine
109897 .....	Diethylamine
110167 .....	Maleic acid
110178 .....	Fumaric acid
110190 .....	iso-Butyl acetate
110827 .....	Cyclohexane
115297 .....	Endosulfan
115322 .....	Dicofol
117806 .....	Dichlone
121211 .....	Pyrethrin
121299 .....	Pyrethrin
121448 .....	Triethylamine
121755 .....	Malathion
123626 .....	Propionic anhydride
123864 .....	n-Butyl acetate
123922 .....	iso-Amyl acetate
124403 .....	Dimethylamine
124414 .....	Sodium methylate
127822 .....	Zinc phenolsulfonate
133062 .....	Captan
142712 .....	Cupric acetate
143339 .....	Sodium cyanide
151508 .....	Potassium cyanide
298000 .....	Methyl parathion
298044 .....	Disulfoton
300765 .....	Naled
301042 .....	Lead acetate
309002 .....	Aldrin
315184 .....	Mexacarbate
329715 .....	2,5-Dinitrophenol
330541 .....	Diuron
333415 .....	Diazinon
506774 .....	Cyanogen chloride
506876 .....	Ammonium carbonate
506967 .....	Acetyl bromide
513495 .....	sec-Butylamine
528290 .....	o-Dinitrobenzene
540885 .....	tert-Butyl acetate
541093 .....	Uranyl acetate
542621 .....	Barium cyanide
543908 .....	Cadmium acetate
544183 .....	Cobaltous formate
554847 .....	m-Nitrophenol
557211 .....	Zinc cyanide
557346 .....	Zinc acetate
557415 .....	Zinc formate
563122 .....	Ethion
573568 .....	2,6-Dinitrophenol
592018 .....	Calcium cyanide
592041 .....	Mercuric cyanide
592858 .....	Mercuric thiocyanate
592870 .....	Lead thiocyanate
625161 .....	tert-Amyl acetate
626380 .....	sec-Amyl acetate
628637 .....	n-Amyl acetate
631618 .....	Ammonium acetate
815827 .....	Cupric tartrate

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**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued**

CAS No.	Common name
1066304 .....	Chromic acetate
1066337 .....	Ammonium bicarbonate
1072351 .....	Lead stearate
1111780 .....	Ammonium carbamate
1185575 .....	Ferric ammonium citrate
1194656 .....	Dichlobenil
1300716 .....	Xylene
1303282 .....	Arsenic pentoxide
1303328 .....	Arsenic disulfide
1303339 .....	Arsenic trisulfide
1309644 .....	Antimony trioxide
1310583 .....	Potassium hydroxide
1310732 .....	Sodium hydroxide
1314621 .....	Vanadium pentoxide
1314803 .....	Phosphorus pentasulfide
1314847 .....	Zinc phosphide
1314870 .....	Lead sulfide
1319773 .....	Cresol (mixed)
1320189 .....	2,4-D ester
1327533 .....	Arsenic trioxide
1330207 .....	Xylene
1332076 .....	Zinc borate
1333831 .....	Sodium bifluoride
1336216 .....	Ammonium hydroxide
1336363 .....	Polychlorinated biphenyls
1338245 .....	Naphthenic acid
1341497 .....	Ammonium bifluoride
1762954 .....	Ammonium thiocyanate
1863634 .....	Ammonium benzoate
1918009 .....	Dicamba
1928387 .....	2,4-D esters
1928478 .....	2,4,5-T ester
1928616 .....	2,4-D ester
1929733 .....	2,4-D ester
2545597 .....	2,4,5-T ester
2764729 .....	Diquat
2921882 .....	Chlorpyrifos
2944674 .....	Ferric ammonium oxalate
2971382 .....	2,4-D ester
3012655 .....	Ammonium citrate, dibasic
3164292 .....	Ammonium tartrate
3251238 .....	Cupric nitrate
3486359 .....	Zinc carbonate
5893663 .....	Cupric oxalate
5972736 .....	Ammonium oxalate
6009707 .....	Ammonium oxalate
6369966 .....	2,4,5-T ester
7428480 .....	Lead stearate
7440235 .....	Sodium
7446084 .....	Selenium oxide
7446142 .....	Lead sulfate
7447394 .....	Cupric chloride
7558794 .....	Sodium phosphate, dibasic
7601549 .....	Sodium phosphate, tribasic
7631892 .....	Sodium arsenate
7631905 .....	Sodium bisulfite
7632000 .....	Sodium nitrite
7645252 .....	Lead arsenate
7646857 .....	Zinc chloride
7647010 .....	Hydrochloric acid
7647189 .....	Antimony pentachloride
7664382 .....	Phosphoric acid
7664393 .....	Hydrofluoric acid
7664417 .....	Ammonia
7664939 .....	Sulfuric acid
7681494 .....	Sodium fluoride
7681529 .....	Sodium hypochlorite
7697372 .....	Nitric acid
7699458 .....	Zinc bromide
7705080 .....	Ferric chloride
7718549 .....	Nickel chloride

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TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued

CAS No.	Common name
7719122 .....	Phosphorus trichloride
7720787 .....	Ferrous sulfate
7722647 .....	Potassium permanganate
7723140 .....	Phosphorus
7733020 .....	Zinc sulfate
7758294 .....	Sodium phosphate, tribasic
7758943 .....	Ferrous chloride
7758954 .....	Lead chloride
7758987 .....	Cupric sulfate
7773060 .....	Ammonium sulfamate
7775113 .....	Sodium chromate
7778441 .....	Calcium arsenate
7778509 .....	Potassium bichromate
7778543 .....	Calcium hypochlorite
7779864 .....	Zinc hydrosulfite
7779886 .....	Zinc nitrate
7782505 .....	Chlorine
7782630 .....	Ferrous sulfate
7782823 .....	Sodium selenite
7782867 .....	Mercurous nitrate
7783359 .....	Mercuric sulfate
7783462 .....	Lead fluoride
7783495 .....	Zinc fluoride
7783508 .....	Ferric fluoride
7783564 .....	Antimony trifluoride
7784341 .....	Arsenic trichloride
7784409 .....	Lead arsenate
7784410 .....	Potassium arsenate
7784465 .....	Sodium arsenite
7785844 .....	Sodium phosphate, tribasic
7786347 .....	Meviphos
7786814 .....	Nickel sulfate
7787475 .....	Beryllium chloride
7787497 .....	Beryllium fluoride
7787555 .....	Beryllium nitrate
7788989 .....	Ammonium chromate
7789006 .....	Potassium chromate
7789062 .....	Strontium chromate
7789095 .....	Ammonium bichromate
7789426 .....	Cadmium bromide
7789437 .....	Cobaltous bromide
7789619 .....	Antimony tribromide
7790945 .....	Chlorosulfonic acid
8001352 .....	Toxaphene
10022705 .....	Sodium hypochlorite
10025873 .....	Phosphorus oxychloride
10025919 .....	Antimony trichloride
10026116 .....	Zirconium tetrachloride
10028225 .....	Ferric sulfate
10028247 .....	Sodium phosphate, dibasic
10039324 .....	Sodium phosphate, dibasic
10043013 .....	Aluminum sulfate
10045893 .....	Ferrous ammonium sulfate
10045940 .....	Mercuric nitrate
10049055 .....	Chromous chloride
10099748 .....	Lead nitrate
10101538 .....	Chromic sulfate
10101630 .....	Lead iodide
10101890 .....	Sodium phosphate, tribasic
10102064 .....	Uranyl nitrate
10102188 .....	Sodium selenite
10102440 .....	Nitrogen dioxide
10102484 .....	Lead arsenate
10108642 .....	Cadmium chloride
10124502 .....	Potassium arsenite
10124568 .....	Sodium phosphate, tribasic
10140655 .....	Sodium phosphate, dibasic
10192300 .....	Ammonium bisulfite
10196040 .....	Ammonium sulfate
10361894 .....	Sodium phosphate, tribasic
10380297 .....	Cupric sulfate, ammoniated

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TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued

CAS No.	Common name
10415755 .....	Mercurous nitrate
10421484 .....	Ferric nitrate
10588019 .....	Sodium bichromate
11115745 .....	Chromic acid
12002038 .....	Cupric acetoarsenite
12054487 .....	Nickel hydroxide
12125018 .....	Ammonium fluoride
12125029 .....	Ammonium chloride
12135761 .....	Ammonium sulfide
12771083 .....	Sulfur chloride
13597994 .....	Beryllium nitrate
13746899 .....	Zirconium nitrate
13765190 .....	Calcium chromate
13814965 .....	Lead fluoborate
13826830 .....	Ammonium fluoborate
13952846 .....	sec-Butylamine
14017415 .....	Cobaltous sulfamate
14216752 .....	Nickel nitrate
14258492 .....	Ammonium oxalate
14307358 .....	Lithium chromate
14307438 .....	Ammonium tartrate
14639975 .....	Zinc ammonium chloride
14639986 .....	Zinc ammonium chloride
14644612 .....	Zirconium sulfate
15699180 .....	Nickel ammonium sulfate
16721805 .....	Sodium hydrosulfide
16871719 .....	Zinc silicofluoride
16919190 .....	Ammonium silicofluoride
16923958 .....	Zirconium potassium fluoride
25154545 .....	Dinitrobenzene
25154556 .....	Nitrophenol
25155300 .....	Sodium dodecylbenzenesulfonate
25167822 .....	Trichlorophenol
25168154 .....	2,4,5-T ester
25168267 .....	2,4-D ester
26264062 .....	Calcium dodecylbenzenesulfonate
27176870 .....	Dodecylbenzenesulfonic acid
27323417 .....	Triethanolamine dodecylbenzenesulfonate
27774136 .....	Vanadyl sulfate
28300745 .....	Antimony potassium tartrate
30525894 .....	Paraformaldehyde
36478769 .....	Uranyl nitrate
37211055 .....	Nickel chloride
42504461 .....	Dodecylbenzenesulfonate isopropanolamine
52628258 .....	Zinc ammonium chloride
52740166 .....	Calcium arsenite
53467111 .....	2,4-D ester
55488874 .....	Ferric ammonium oxalate
61792072 .....	2,4,5-T ester

[43 FR 10474, Mar. 13, 1978; 43 FR 27533, June 26, 1978, as amended at 44 FR 10268, Feb. 16, 1979; 44 FR 65400, Nov. 13, 1979; 44 FR 66602, Nov. 20, 1979; 54 FR 33482, Aug. 14, 1989]

PART 117—DETERMINATION OF REPORTABLE QUANTITIES FOR HAZARDOUS SUBSTANCES

Subpart A—General Provisions

Sec.

- 117.1 Definitions.
- 117.2 Abbreviations.